



# Cempolay

## SELF-LEVELLING COMPOUND

TECHNICAL SHEET NO: TDS02225 12/04/2024

### SMART ADVANTAGES

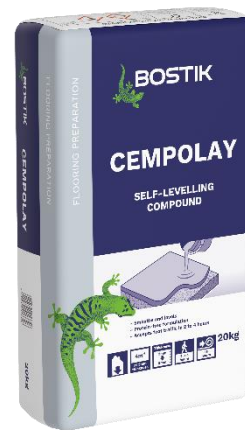
- Smooths and levels
- Protein-free formulation
- Accepts foot traffic in 2 to 4 hours

### DESCRIPTION

Bostik Cempolay is a protein-free smoothing and levelling compound based on a blend of cements and polymers. It is suitable for smoothing and levelling interior subfloors prior to laying decorative floor coverings.

It is ideal for smoothing and levelling prepared concrete subfloors, sand/cement screeds, stone and firmly bonded unglazed ceramic tiles. It is not suitable for use over existing adhesive or water-soluble residues, wooden or non-porous floors, calcium sulphate-based screeds, mastic asphalt or quarry tiles, or over underfloor heating systems.

It is not to be used as a wearing surface and should always be covered with a floor covering. It is not suitable for use with underfloor heating, in damp conditions, or as a floor topping. For interior use only.



### TECHNICAL CHARACTERISTICS

<b>Colour</b>	Grey
<b>Form</b>	Dry, free flowing powder
<b>Composition</b>	Blend of cement, organic binders and fillers
<b>Application temperature</b>	+5°C to +27°C
<b>Gauging liquid</b>	Water
<b>Application thickness</b>	3mm to 5mm
<b>Working times</b>	Up to 20 minutes after mixing (depending on ambient temperature and humidity) Light foot traffic: approx. 2 to 4 hours
<b>Drying times</b>	Loose lay floor coverings: approx. 16 hours Textile coverings: approx. 16 hours  (3mm thickness at +20°C, depending on application thickness, ambient temperature and humidity)
<b>Fire rating</b>	A1
<b>Compressive strength</b>	Typically, 16N/mm <sup>2</sup> after 28 days
<b>Flexural strength</b>	Typically, 6N/mm <sup>2</sup> after 28 days

## COVERAGE

- Approx. 4m<sup>2</sup> per bag at 3mm thickness
- Approx. 2.7m<sup>2</sup> per bag at 5mm thickness (depending on the smoothness and absorbency of the floor surface)

## APPLICATION

**IMPORTANT:** Before using Bostik Cempolay, refer to the relevant Health & Safety Data Sheet, available at [www.bostik.com/uk](http://www.bostik.com/uk).

All phases of the application should comply with the current editions of:

- BS 8102 Code of practice for protection of below ground structures against water ingress.
- BS 5325 Code of practice for installation of textile floor coverings.
- BS 8203 Code of practice for installation of resilient floor coverings.
- BS 8201 Code of practice for installation of flooring of wood and wood-based panels.

Ensure the correct PPE is worn during use.

## PREPARATION

- Ensure the subfloor is clean, sound and dry (<75%RH), of adequate tensile & compressive strength, free from laitance, cracks, structural defects and contaminants that may prevent adhesion (e.g., dust, oil, grease, paint, plaster, polish, some curing compounds, surface hardeners, additives and adhesive residues must be completely removed), and conforms to BS 8204 code of practice. Bostik Cempolay does not tolerate any contamination.
- Any cracks or holes in the floor must be cleaned out and filled with Bostik Rapid Repair Mortar. Allow to completely dry before applying Bostik Cempolay.
- The temperature of the floor and application environment must be stable and maintained between +5°C and +27°C throughout the application and drying of the compound.

## PRIMING

- When applying Bostik Cempolay, the subfloor must be primed prior to the application of the compound. See table below, refer to separate technical data sheets for primer application and drying times.
- Priming will minimise rapid absorption and will reduce the risk of pin holing and extend the working time to result in the ideal surface finish.

Porous substrates	Bostik Cempolay Universal Primer (diluted 1 : 2 with water)
Dense/non-porous substrates	Undiluted Bostik Cempolay Universal Primer

## MIXING & APPLICATION THICKNESS

- Pour 4 litres of clean, cold water into a clean mixing bucket.
- Gradually add the 20kg bag of Bostik Cempolay powder to the water, whilst continually mixing with an electric drill and mixing paddle until a smooth, lump-free mixture is obtained. This will normally be achieved after 2 minutes. Do not under

mix. Optimal results can be achieved by allowing the mixed material to stand/mature for 1 minute and then mixing again for 1 minute.

- Make sure the mixing bucket is free from any unmixed material on the sides and the base.
- Note: the addition of too much water may result in separation of the compound.
- Bostik Cempolay can be applied from 3mm to 5mm in a single application.
- Do not mix more compound than you can use in 15 minutes. The mixture will remain workable for approximately 15 to 20 minutes under normal conditions. If the mix begins to stiffen before it has been spread, it must be discarded. Do not re-temper or add further water.

## APPLICATION

- Pour the mixed material onto the prepared subfloor in a continuous operation.
- Using a steel trowel, apply Bostik Cempolay evenly to the required thickness.
- Use a spiked roller to deaerate the compound and smooth out any trowel lines whilst the compound is still fluid.
- Protect surface from traffic prior to laying a floor covering. Ensure the compound is fully dry before applying a floor covering.

## DRYING TIMES

- Drying times may vary depending upon site conditions, substrate type and installation environment.
- The drying time depends on how absorbent the subfloor is, the air humidity and both the ambient & floor temperatures.
- Thicker applications will prolong overall drying times.
- Based on good ambient conditions of +20°C and 3mm thickness, the compound can be laid directly over after the following times:

Light foot traffic	2 to 4 hours approx.
Loose lay floor coverings	16 hours approx.
Textile coverings	16 hours approx.
Other floor coverings	Contact Technical Services

- The working and drying times of the compound will be reduced in higher temperatures and increased in lower temperatures.

## CLEANING

- Clean tools and equipment with warm, soapy water immediately after use. Remove surplus compound from surfaces whilst it is still wet. Dried and hardened compound can only be removed mechanically.

## STORAGE

- Store and transport securely. Store for up to 6 months from date of manufacture in original, unopened packaging, clear of the ground, in cool, dry conditions within the temperature range +5°C to +25°C and out of direct sunlight. Protect from excessive drafts, frost, damp, condensation and dew.

## PRECAUTIONS IN USE

Do not use as a substitute for a DPM. An effective membrane is required to prevent water entering the system. Protect surface from foot traffic prior to installing a floor covering. Ensure the compound is fully dry before installing a floor covering. During drying, protect the freshly applied product from strong sunlight and through draughts. Protect from rain and frost. Do not force dry the compound. Application in high temperatures may result in rapid setting and poor flow. The rapid loss of water may increase the risk of cracking.

The mix ratios and temperatures need to be followed accurately. Changing the mix ratios will disrupt the system and risk product failure.

For any application not covered, please contact Technical Services on +44 (0)1785 272625 or visit [www.bostik.com/uk](http://www.bostik.com/uk) for advice.

Recommendations and suggestions are for guidance only, since conditions of use are completely beyond our control.

For health and safety instruction, first aid measures and spillage and disposal instructions, see separate Health and Safety Data sheet for Bostik Cempolay, available at [www.bostik.com/uk](http://www.bostik.com/uk).

## PACKAGING

<b>Product codes</b>	30622968	20kg bag
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